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**ANNUAL REPORT
OF
THE MINES DIVISION
OF THE
Department of Mines and Minerals
OF THE
PROVINCE OF ALBERTA**



Edmonton:
Printed by L. S. Wall, Queen's Printer



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Edmonton, Alberta,

February 7th, 1966.

TO THE HONOURABLE A. RUSSELL PATRICK,
Minister of Mines and Minerals

Sir:

I have the honour to submit the Annual Report of the Mines Division of the Department of Mines and Minerals for the year ending December 31st, 1965.

Respectfully submitted,
J. A. DUTTON,
Director of Mines.

ANNUAL REPORT OF THE MINES DIVISION FOR THE
YEAR ENDING DECEMBER 31st, 1965

The output of coal from the mines in the province was 3,413,928 tons with a valuation of \$12,172,001. This shows an increase of 442,795 tons and an increase of \$982,914, compared with the previous year.

There were 34,658 tons of coal used to make 36,854 tons of briquettes valued at \$322,567. This shows a decrease of 1,376 tons of briquettes made and a decrease in valuation of \$44,759, compared with the previous year. There were 38,804 tons of char, valued at \$459,286, made from coal and briquettes.

In addition to the above tonnage, there were 820 tons of coal reported as mined by the Blackfoot Indians, at Gleichen, for their own use.

The disposition of coal for 1965 and comparison with the previous year follows:

	1965	1964
Sold for consumption in Alberta	1,928,684	1,668,384
Sold for consumption in British Columbia	276,608	261,990
Sold for consumption in Saskatchewan	388,796	279,171
Sold for consumption in Manitoba	130,861	122,590
Sold for consumption in Ontario	31,733	32,261
Sold for consumption in other provinces	85	86
Sold to the United States	14,123	14,805
Sold to Japan	614,801	612,544
Sold to railway companies	10,798	14,451
Put to stock	89,960	147,172
Put to waste	9,609	14,866

The above tonnages include lifted from stock and waste heaps which are not included in the total output.

The Alberta consumption includes coal used under colliery boilers and includes coal used making briquettes and char.

There were 44 subsurface and strip mines which produced coal during the year, employing 1,181 persons who worked 288,871 shifts. This shows a decrease of 6 mines, a decrease of 7 persons, and an increase of 3,832 shifts, compared with the previous year. There were 26 strip mines employing 338 persons who worked 88,575 shifts and produced 2,436,764 tons. This shows a decrease of 2 strip mines, an increase of 67 persons, an increase of 20,745 shifts and an increase of 526,081 tons from stripping operations, compared with the previous year.

The number of mines using electrical power during the year was 33. The following table shows the comparison of purchased electrical power in K.W. hrs. by mines for the past ten years.

1956	42,228,910	1961	21,694,596
1957	29,110,288	1962	20,436,598
1958	20,574,436	1963	22,062,185
1959	25,159,068	1964	21,930,976
1960	26,231,225	1965	20,001,530

The total horsepower of electrical motors in use was 28,156 h.p., a decrease of 2,832 h.p., in comparison with 1964. The

THE MINES DIVISION

following tables show a breakdown of horsepower in use, both in subsurface mining operations and strip mining operations.

SUBSURFACE OPERATIONS

Above Ground	H.P.	Below Ground	H.P.
Duty		Haulage	
Haulage	2,296	Haulage	3,711
Ventilation	609	Ventilation	93
Air Compressing	2,410	Pumping	142
Preparation Plants	4,348	Cutting and Loading	2,455
Miscellaneous	1,887	Miscellaneous	590
Total	11,550	Total	3,670

STRIP MINING OPERATIONS

Duty	H.P.
Preparation Plants	3,711
Compressors	6
Pumping	340
Drilling	38
Shovels and Draglines	8,419
Total	12,936

The following figures show the number of certain types of electrical equipment used underground during the past ten years.

	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
Cutting Machines	141	115	98	73	71	66	56	46	46	36
Battery Locomotives	43	36	31	26	22	25	27	27	22	15
Trolley Locomotives	24	22	21	18	8	10	9	9	7	5
Conveyors	55	46	45	38	30	33	31	30	30	22
Coal Drills	93	86	74	55	56	59	50	53	45	41
Continuous Miners	0	0	0	0	1	1	1	1	1	2
Shuttle Cars	0	0	0	0	0	0	0	0	2	2
Face Loaders	9	12	13	13	15	17	16	16	9	8

Twenty-four quarries produced 1,757,763 tons of shale, clay, limestone, building stone, bentonite and oil sands, a decrease of 42,823 tons compared with the previous year.

Three hundred and seven inspections were made under the terms of The Coal Mines Regulation Act, 275 in connection with The Workmen's Compensation Board Regulations and 67 under The Quarries Regulation Act.

In addition to the above, 76 inspections were made at 57 abandoned mining locations. Remedial work was required and completed at 16 mines. Nine inspections were made for the cancellation of mining leases.

The total number of accidents in coal mines reported was 22. The number of fatal accidents was 6 compared with 1 in the previous year. This equals 1.76 fatalities per million tons of coal produced.

All complaints made to the Division were investigated.

There were no prosecutions under The Coal Mines Regulation Act.

Written examinations under The Coal Mines Regulation Act were held on May 4th, 5th and 6th at Edmonton and Calgary with successful candidates as follows: 4 managers (strip mine), 9 foremen (strip mine) and 1 blaster (strip mine).

Written examinations under The Quarries Regulation Act were held on May 4th at Edmonton and Calgary with successful candidates as follows: 2 managers and 5 foremen.

Three examinations were held for miners' certificates and 39 certificates were issued to successful candidates. Eight substitute miners' certificates, 7 miners' provisional certificates and 79 miners' permits were granted, making a total of 133 certificates issued which is an increase of 5 certificates for the year.

On February 17th, at Mine No. 1747, operated by Coleman Collieries Ltd., a sudden inrush of water and debris from a faulted area in the mine filled a number of working places, and the main haulage entry for a distance of about one mile. One man was caught by the inflow and his body was not recovered until 30 days later. It took 4 months to clear the mine of debris.

On May 28th, at Mine No. 1747, operated by Coleman Collieries Ltd., spontaneous heating was observed issuing from the gob in 22 room. Stoppings were erected and the heated area was injected with water. All signs of heating have now disappeared.

On September 25th, smoke was noticed issuing from Mine No. 1266 which was in the process of abandonment. On investigation it was found that a wooden door and the coal rib near the mine entrance was burning. The fire was quickly extinguished and the hot ashes loaded out in steel cars. The fire was believed to have been started maliciously.

On December 10th, at Mine No. 1573, operated by Amalgamated Coals Ltd., an old gob fire became reactivated. The old stoppings surrounding the fire area were resealed with a fire-proof sealant and additional stoppings erected. This condition is under control and the area is patrolled daily.

At Mine No. 2, operated by The Canmore Mines, Limited, there has been a recent trend towards an electrical mechanization of the mine. Two continuous miners with shuttle cars and conveying system have been installed, with encouraging results.

At Quarry No. 21, operated by Inland Cement Company Limited, over 2,000 feet of tunnels and raises were driven to the top of the mountain, to convey limestone through underground passages to the railway cars.

On October 14th, Mr. Robert Shaw, District Inspector of Mines, Drumheller, retired from his position after 18 years of service. The office at Drumheller was dispensed with and the inspection district distributed between the Calgary and Edmonton offices.

THE MINES DIVISION

NUMBER OF MINES PRODUCING, OPENED AND ABANDONED
DURING THE YEAR ACCORDING TO AREAS AND KIND OF COAL

Director of Mines - J.A. Dutton, Natural Resources Building,
Edmonton, Alberta. Telephone 229-3802

Assistant Director of Mines - J.D.B. Brown, Natural Resources
Building, Edmonton, Alberta. Telephone 229-3803

Electrical Inspector of Mines - J.S. Watson, Natural Resources
Building, Edmonton, Alberta. Telephone 229-3806

Inspection District	Area	Area Number	Character of Coal	No. of Mines producing during the year	No. of Mines opened during the year	No. of Mines abandoned during the year	Name and Address of District Inspectors of Mines
Calgary	Ardley	1	Sub-bituminous	2	J. J. Kubin, 806-Centre Street South, Calgary, Alta. Tel. 269-6687
	Carbon	6	Sub-bituminous	4	..	2	
	Cascade	7	Bituminous	1	..	..
	Gleichen	17	Sub-bituminous	1	..	..
Drumheller	Castor	8	Sub-bituminous	3	..	1	R. Shaw, Provincial Bldg., Centre St. & 2nd Ave., Drumheller, Alta. Tel. 823-2413
	Drumheller	14	Sub-bituminous	4	..	..
	Sheerness	38	Sub-bituminous	1	..	..
Edmonton	Camrose	5	Sub-bituminous	2	P. Melson, Room 317, Natural Resources Bldg., Edmonton, Alta. Tel. 229-3805
	Coalspur	11	Bituminous	1	..	1	
	Edmonton	15	Sub-bituminous	5	..	1	
	Halcourt	18	Sub-bituminous	..	..	1
	Pembina	31	Sub-bituminous	3	..	..
	Tofield	42	Sub-bituminous	3	..	..
	Westlock	45	Sub-bituminous	2	..	..
	Wetaskiwin	46	Sub-bituminous	1	..	..
	Brooks	3	Sub-bituminous	2	I. N. Potter, Administration Bldg., 909-3rd Ave. North, Lethbridge, Alta. Tel. 328-4471
Lethbridge	Champion	9	Sub-bituminous	2	..	1	
	Crowsnest	12-13	Bituminous	3	1	2	
	Lethbridge	20	Bituminous	2	1	1	
	Redcliff	34	Sub-bituminous	1	..	..
	Taber	41	Sub-bituminous	1	..	..
Total				44	2	10	

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1965.

SUMMARY OF STATISTICS

Number of tons of coal produced.....	3,413,928
Total valuation of coal produced.....	\$ 12,172,001
Number of tons of briquettes made.....	36,854
Total valuation of briquettes made.....	\$ 322,567
Number of tons of char made.....	38,804
Total valuation of char made.....	\$ 459,286
Number of mines in operation.....	44
Number of mines opened.....	2
Number of mines abandoned.....	10
10 mines or 22.73% of the total operating produced 0.06% of the output.	
7 mines or 15.91% of the total operating produced 0.56% of the output.	
6 mines or 13.64% of the total operating produced 1.29% of the output.	
11 mines or 25.00% of the total operating produced 5.78% of the output.	
1 mine or 2.27% of the total operating produced 1.60% of the output.	
1 mine or 2.27% of the total operating produced 3.06% of the output.	
1 mine or 2.27% of the total operating produced 5.71% of the output.	
4 mines or 9.09% of the total operating produced 27.84% of the output.	
3 mines or 6.82% of the total operating produced 54.10% of the output.	
Average number of persons employed.....	1,181
Average number of persons employed in under ground mining.....	843
Average number of persons employed in strip mining.....	338
Average number of days worked.....	155
Total number of manshifts.....	288,871
Number of separate accidents causing loss of life.	6
Number of fatal accidents above ground.....	1
Number of fatal accidents below ground.....	5
Number of serious accidents above ground.....	2
Number of serious accidents below ground.....	1
Number of slight accidents above ground.....	1
Number of slight accidents below ground.....	12
Total purchased electric power (kilowatt hours).....	20,001,530
Number of trade name certificates issued.....	2
Number of provisional second class certificates issued.....	8
Number of provisional third class certificates issued.....	1
Number of provisional electricians certificates issued.....	2
Number of provisional foremen's certificates issued.....	9
Number of provisional miners' certificates issued.....	7
Number of miners' permits issued.....	79
Number of miners' certificates issued.....	39
Number of strip mine manager's certificates issued.....	4
Number of strip mine foremen's certificates issued.....	7
Number of first class certificates issued up to Dec. 31/65.....	313
Number of second class certificates issued up to Dec. 31/65.....	624
Number of third class certificates issued up to Dec. 31/65.....	1,862
Number of mine surveyors' certificates issued up to Dec. 31/65.....	251
Number of first class mine electricians' certificates issued up to Dec. 31/65.	175
Number of second class mine electricians' certificates issued up to Dec. 31/65.....	139
Number of strip mine managers' certificates issued up to Dec. 31/65.....	173
Number of strip mine foremen's certificates issued up to Dec. 31/65.....	256
Number of strip mine blasters' certificates issued up to Dec. 31/65.....	26
Number of miners' certificates issued up to Dec. 31/65.....	21,073

PARTICULARS WITH REFERENCE TO QUARRIES IN THE
PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1965.

SUMMARY OF STATISTICS

Number of tons of bentonite produced.....	58,011
Number of tons shale and clay produced.....	351,295
Number of tons of limestone produced.....	1,346,645
Number of tons of building stone produced.....	1,633
Number of tons of oil-sands produced.....	179
Number of quarries in operation.....	24
Number of persons employed.....	170
Average number of days worked.....	120
Total number of manshifts.....	47,309
Number of pounds of dynamite used.....	82,960
Number of pounds of ammonia nitrate used.....	350,205
Number of detonators used.....	11,411
Number of shots fired.....	10,524
Number of primers used.....	8,177
Number of missed fire shots.....	6
Amount of prima cord used (feet).....	30,100
Number of provisional managers' certificates issued.....	1
Number of provisional foremen's certificates issued.....	15
Number of managers' certificates issued.....	2
Number of foremen's certificates issued.....	5
Number of managers' certificates issued up to December 31st, 1965.....	22
Number of foremen's certificates issued up to December 31st, 1965.....	45
Number of blasters' certificates issued up to December 31st, 1965.....	62

ANNUAL PRODUCTION AND VALUATION OF COAL FROM MINES
IN THE PROVINCE OF ALBERTA
For the Years 1946 to 1965 Inclusive

Year	Output Tons	Valuation Dollars
1946.....	8,824,455	\$ 33,197,261
1947.....	8,074,596	36,317,343
1948.....	8,111,013	41,875,044
1949.....	8,616,983	44,541,538
1950.....	8,118,206	41,631,579
1951.....	7,661,276	41,000,953
1952.....	7,194,472	39,974,318
1953.....	5,917,423	32,158,435
1954.....	4,859,136	26,349,275
1955.....	4,456,578	23,486,399
1956.....	4,329,639	23,283,966
1957.....	3,155,354	17,287,229
1958.....	2,519,939	12,778,111
1959.....	2,549,517	12,892,747
1960.....	2,404,093	11,439,705
1961.....	2,027,826	10,471,217
1962.....	2,087,310	9,983,327
1963.....	2,289,943	9,866,962
1964.....	2,971,133	11,189,087
1965.....	3,413,928	12,172,001

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE
For the Years 1946 to 1965 Inclusive

Year	Gross Tons of coal mined	Total Average No. of men employed	Tons of Coal mined per man employed
1946.....	8,824,455	8,583	1,028
1947.....	8,074,596	8,772	920
1948.....	8,111,013	8,865	915
1949.....	8,616,983	8,682	993
1950.....	8,118,206	7,999	1,015
1951.....	7,661,276	7,339	1,044
1952.....	7,194,472	6,936	1,037
1953.....	5,917,423	5,760	1,027
1954.....	4,859,136	4,719	1,030
1955.....	4,456,578	3,801	1,172
1956.....	4,329,639	3,443	1,258
1957.....	3,155,354	2,795	1,129
1958.....	2,519,939	2,021	1,247
1959.....	2,549,517	1,720	1,482
1960.....	2,404,093	1,729	1,390
1961.....	2,027,826	1,323	1,533
1962.....	2,087,310	1,281	1,629
1963.....	2,289,943	1,151	1,989
1964.....	2,971,133	1,188	2,501
1965.....	3,413,928	1,181	2,891

THE MINES DIVISION

CLASSIFICATION OF OUTPUT DURING THE YEARS 1946 to 1965 INCLUSIVE

Year	Bituminous	Sub-bituminous	Coal used in Coke Production	Tons of Briquettes Made	Tons of Coke Made
1946.....	5,389,596	3,434,859	64,878	275,646	43,206
1947.....	4,817,376	3,237,220	81,128	282,898	52,627
1948.....	4,920,796	3,190,217	78,795	321,574	45,718
1949.....	5,475,327	3,121,656	91,361	460,643	54,922
1950.....	4,793,020	3,325,186	23,079	409,855	16,637
1951.....	4,659,289	3,001,987	6,957	245,768	3,959
1952.....	4,378,622	2,815,950	3,474	661,862	574
1953.....	2,517,499	2,399,924	...	665,556	...
1954.....	2,402,185	2,426,951	...	635,501	...
1955.....	2,114,892	2,341,686	...	435,785	...
1956.....	2,064,723	2,244,916	...	525,202	...
1957.....	1,285,844	1,889,210	...	265,645	...
1958.....	834,256	1,685,683	...	128,512	...
1959.....	814,819	1,734,698	...	99,499	...
1960.....	863,517	1,540,576	2,352	44,111	1,216
1961.....	666,226	1,361,600	*	34,534	491
1962.....	590,339	1,497,171	*	28,631	40
1963.....	635,650	1,654,293	...	37,358	11,677
1964.....	866,221	2,104,912	*	38,230	19,971
1965.....	859,176	2,554,752	*	34,658	28,804

* Char

Amount of Coal Sold During the Years 1946 to 1965 Inclusive for Consumption in:

Year	Railways	Alberta	B.C.	Sask.	Manitoba	Ontario	Quebec	U.S.A.	China and Japan	Total
1946.....	2,893,207	1,608,296	982,413	1,449,002	658,733	348,137	...	137,271	37,865	* 8,136,694
1947.....	2,506,604	1,671,130	899,403	1,475,006	583,414	162,898	91,235	42,192	* 7,423,989	
1948.....	2,312,273	1,593,629	945,100	1,413,283	629,009	202,520	58	84,495	200,947	7,377,914
1949.....	3,012,425	1,614,306	891,332	1,235,890	629,456	187,976	...	45,972	7,617,632	
1950.....	2,308,365	1,672,519	872,558	1,366,723	586,563	182,753	...	105,765	7,226,413	
1951.....	2,442,326	1,627,114	898,533	1,322,162	492,737	126,381	...	80,270	44,317	6,891,212
1952.....	2,065,365	1,234,207	1,021,184	1,241,716	381,924	...	71,817	1,588	6,147,582	
1953.....	1,625,783	1,045,482	859,385	1,034,594	721,798	73,117	...	47,119	4,960,238	
1954.....	743,743	1,064,817	891,194	992,882	292,455	85,836	...	33,24	...	4,107,051
1955.....	431,639	1,080,379	932,764	892,377	92,719	90,727	...	32,941	3,755,546	
1956.....	285,388	1,020,538	860,329	871,719	304,918	75,029	120	45,692	...	3,563,733
1957.....	152,693	876,195	612,327	680,297	244,480	68,379	165	46,079	40,745	2,784,760
1958.....	56,420	838,235	532,911	584,025	228,302	54,387	122	37,154	21,952	2,352,308
1959.....	39,122	874,622	437,118	549,663	239,503	52,828	80	33,455	124,719	2,351,110
1960.....	1,045	845,806	379,668	362,383	201,372	40,305	157	30,283	361,336	2,222,355
1961.....	51,228	791,631	321,909	232,848	159,744	35,466	115	18,066	343,720	1,954,627
1962.....	32,003	901,107	283,651	347,012	155,561	29,952	75	9,219	316,787	2,073,367
1963.....	16,001	1,073,606	262,633	342,634	131,471	29,509	118	5,583	41,058	2,212,713
1964.....	14,451	1,620,893	261,990	279,171	122,590	32,261	x	14,805	612,244	2,938,191
1965.....	10,798	1,928,684	276,408	388,796	130,861	31,733	85	14,123	614,801	3,396,489

* NOTE: Included in the above totals are the following tonnages:

x Includes 46 tons to N.W.T.

Ships Bunkers

1946.....	.....	21,770
1947.....	.....	4,107

THE MINES DIVISION

Coal Produced by Years from 1961 to 1965

BITUMINOUS COAL FIELD

Areas	1961	1962	1963	1964	1965
Group 1:					
Cascade.....	230,058	217,050	215,269	240,505	243,084
Group 2:					
Crowsnest.....	352,665	300,983	360,268	554,783	609,408
Group 3:					
Coalspur.....	4,916	6,263	5,206	5,896	194
Halcourt.....	360	...	280	...	
Lethbridge.....	78,227	65,843	54,627	65,037	6,490
Total.....	666,226	590,139	635,650	866,221	859,176

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley.....	41,320	39,817	38,405	34,405	32,034
Brooks.....	8,660	7,652	6,633	6,942	6,783
Carbon.....	19,518	18,009	15,195	14,011	11,731
Champion.....	5,188	4,843	3,710	3,151	3,028
Drumheller.....	382,576	342,240	305,508	246,123	285,175
Edmonton.....	89,928	90,111	85,316	86,478	92,277
Gleichen.....	2,372	2,116	1,470	829	223
Pembina.....	56,133	196,271	358,275	841,281	968,488
Taber.....	45,035	37,977	28,967	27,116	104,398
Wetaskiwin.....	3,190	2,784	2,575	2,341	1,750
Whitecourt.....	68	...	...	...	...
Group 5:					
Camrose.....	28,212	24,943	23,019	23,411	26,400
Castor.....	482,861	513,148	569,868	615,072	768,181
Redcliff.....	2,398	2,211	2,023	1,993	2,016
Sheerness.....	155,967	174,167	174,601	164,364	210,746
Tofield.....	20,163	20,062	17,550	15,390	17,370
Westlock.....	18,011	20,820	21,178	22,005	24,152
Total.....	1,361,600	1,497,171	1,654,293	2,104,912	2,554,752

How the total output of BITUMINOUS COAL from the Province was disposed of by areas during 1965

Area	Sold for Consumption in						Total Output
	Group 1: Cascade	Group 2: Crownest	Group 3: Coalpur	Group 4: Lethbridge	Group 5: Beltline Companies	Group 6: Beltline Companies	
Group 1: Cascade	1325	38490	14566	25	1253	19033	9199
Group 2: Crownest	***	14578	126995	***	929	7078	4924
Group 3: Coalpur	***	17	177	***	***	81	***
Lethbridge	***	3941	3125	202	***	***	***
Total:	1325	57026	144863	227	2182	26192	14123

Now the total output of SUB-BITUMINOUS COAL from the Province was disposed of by areas during 1965

Below the total output of COAL from the Province was disposed of by months during 1965

Months	Sold for Consumption in:										How the total Output of BRICKETTES from the Province was disposed of during 1965											
	Brikettes			Alborta			Columba			Bask.			Brikettes			Brikettes			Brikettes			
	Sold directly to Consumers	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	Alborta	
January	1688	240809	34657	76817	24681	6339	42	2312	51082	438437	2540	1691	9762	1691	9762	1691	9762	1691	9762	1691	9762	
February	1399	187900	25060	52416	16622	3422	...	2212	33061	322112	3135	1556	4847	741	900	741	900	741	900	741	900	
March	1321	195956	23449	46822	10476	1495	...	2146	44193	325108	1501	946	2018	573	320756	573	320756	573	320756	573	320756	
April	1427	130473	21884	22653	1958	512	...	1164	45429	225507	453936	180917	21496	4836	2202	839	2202	839	2202	839	2202	
May	468	116108	15677	22797	883	633	...	913	14396	14396	14396	14396	14396	14396	14396	14396	14396	14396	14396	14396	14396	
June	82	71070	17088	2081	442	837	...	1077	51043	143700	15827	8	45	141	772	201545	141	772	201545	141	772	201545
July	**	52106	13887	641	1055	...	763	58624	127097	2685	8	4	3720	866	15283	367	15283	367	15283	367	15283	
August	80	116993	16494	5941	1081	1669	...	**	47168	190262	4409	18	8180	595	18678	595	18678	595	18678	595	18678	
September	936	178822	24166	47783	15056	3574	...	570	47163	314670	11259	1150	5844	1016	312919	1016	312919	1016	312919	1016	312919	
October	1696	153318	23724	43800	17755	4031	...	677	71015	316216	4721	903	20831	807	300202	807	300202	807	300202	807	300202	
November	956	253466	29356	44059	2490	3248	43	1031	68704	425643	4173	255	11442	761	419678	761	419678	761	419678	761	419678	
December	545	231763	31216	48494	17236	4948	...	1258	51183	386643	14378	1196	3612	838	397107	838	397107	838	397107	838	397107	
Total:	10798	1928684	276608	388796	130861	31733	85	14123	614801	3396489	89960	9609	73025	9075	3413928							
% of Total Disposition:	0.32	56.78	8.14	11.45	3.85	0.93	0.01	0.42	18.10													
Charat:	5853	22606	3137	13	474	1866	...	...	...	3389	1010	3263	1308	...	33328	461	5812	797	***	36854	36854

THE MINES DIVISION

How the total Output of BITUMINOUS COAL was disposed of by months during 1965

Months	Sold for Consumption in						Total Output
	Alberta	British Columbia	Manitoba	Ontario	Quebec	British Columbia Disposition	
January	126	7903	13851	202	285	5876	***
February	316	4928	12862	***	815	2797	***
March	187	4726	12313	***	1115	1178	***
April	42	3802	12716	***	434	434	***
May	***	9521	12387	***	526	653	***
June	3602	2211	10260	***	400	723	***
July	***	3746	10452	***	***	1095	***
August	49	5934	11969	***	***	1013	***
September	151	4201	10545	***	41	2913	***
October	155	5647	13351	25	***	2609	***
November	299	7225	14636	***	***	2405	***
December						4416	***
Total:	1325	57026	144863	227	2182	26192	***
% of Total Disposition:	0.16	6.63	16.83	0.03	0.25	3.04	***
						1.64	71.42

How the total Output of SUB-BITUMINOUS COAL was disposed of by months during 1965

Months	Sold for Consumption in						Total Disposition	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberia	Br-Italia	Colombia	Guinea	Japan	United States						
January	1562	232906	20816	766615	24396	463	42	...	...	356800	2523	1226
February	1083	189772	12218	52416	15807	625	...	...	...	265121	112	1256
March	1134	191130	11136	46822	10361	267	...	...	...	1339	946	1203
April	1385	126671	9168	22653	1958	78	...	...	...	161913	301	1309
May	468	113027	6156	2279	357	...	...	...	...	122287	8586	45
June	82	67468	4681	2881	42	114	...	...	...	74468	14189	8
July	...	49895	3567	641	81	...	...	...	...	54184	361	...
August	80	113247	6042	5941	1081	...	...	...	...	126987	4	...
September	887	172868	12397	42783	15056	601	...	...	...	244392	729	18
October	1745	149117	13179	43800	17714	1422	...	...	...	228977	4688	333
November	801	247619	16005	44044	843	43	...	...	...	334145	4173	903
December	246	224538	16560	48494	17236	532	...	...	...	301626	3810	225
Total:	9473	1871658	131745	388569	128679	5541	85	...	...	2535750	43038	9609
% of Total Disposition:	0.37	73.82	5.19	15.32	5.07	0.22	0.01	...	...			2554752

THE MINES DIVISION

PER CAPITA PRODUCTION OF MINES BY AREAS BITUMINOUS COAL FIELD

SUB-BITUMINOUS COAL FIBER

SUMMARY

Bituminous,....	859,176	703	1,222	173,330	4,96	195,332	60	3,255	16,227	12,04	663,844	643	1,032	157,103	4,23
Sub-Subtumous.	2554,752	478	5,345	115,541	22,11	2240,880	278	8,061	72,348	30,97	313,872	200	1,569	43,193	7,27
Total,.....	3443,928	1,181	2,891	288,871	11,82	2436,212	338	7,208	88,575	27,50	977,716	843	1,160	200,296	4,88

THE MINES DIVISION

OUTPUT AND NUMBER OF MINES PRODUCING

Kind of Coal	Total																									
	Under 1,000 Tons			1,000 to 5,000 Tons			5,000 to 10,000 Tons			10,000 to 50,000 Tons			50,000 to 100,000 Tons			100,000 to 150,000 Tons			150,000 to 200,000 Tons			200,000 to 300,000 Tons			Total	
No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	Total
Bituminous.....	2	392	1	4,812	1	6,292	1	***	..	***	..	***	..	..	1	195,134	1	243,084	1	439,462	7	850,176			
Sub-bituminous.....	8	1,773	6	14,218	5	37,796	11	197,154	1	54,649	1	104,398	..	..	3	707,524	2	1,437,240	37	2,554,752					
Total.....	10	2,165	7	19,030	6	44,088	11	197,154	1	54,649	1	104,398	1	195,134	4	950,608	3	1,846,702	44	3,413,928						

AMOUNT OF COAL DISPOSED OF DURING THE YEAR BY AREA, ACCORDING TO SIZE GRADING

THE MINES DIVISION

AMOUNT OF COAL DISPOSED OF DURING THE YEAR BY AREA, ACCORDING TO SIZE GRADING

AREA	SIZE GRAD- ING	RUN OF MINE	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
FOR CONSUMPTION IN BRITISH COLUMBIA									
Cascade	46	782	...	598	12415	50	675	14566	
Crowsnest	...	...	...	...	9706	220	117069	126995	
Coalspur	...	43	41	...	93	...	...	177	
Lethbridge	...	467	365	...	854	...	1439	3125	
Drumheller	...	20567	12109	2329	11449	...	...	46454	
Taber	...	620	2980	434	25158	4406	5468	39066	
Castor	...	10422	2463	2610	22410	3238	...	41143	
Sheerness	...	131	24	52	4875	...	...	5082	
Total	46	33032	17982	6023	86960	7914	124651	276608	
FOR CONSUMPTION IN SASKATCHEWAN									
Cascade	...	25	...	...	...	...	...	...	25
Lethbridge	...	130	72	...	...	...	...	...	202
Drumheller	...	42289	15859	4032	3025	...	16995	82200	
Taber	...	...	...	...	...	...	...	221	221
Castor	99673	13452	2196	20840	9349	7470	5077	158057	
Sheerness	60114	2960	1249	16301	13181	10311	43975	148091	
Total	159787	58856	19376	41173	25555	17781	66268	388796	

AMOUNT OF COAL DISPOSED OF DURING THE YEAR BY AREA, ACCORDING TO SIZE GRADING

SIZE GRAD- ING AREA	RUN OF MINE	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
FOR CONSUMPTION IN MANITOBA								
Cascade	499	107	...	...	40	...	607	1253
Crowsnest	...	...	...	...	579	350	...	929
Drumheller	...	14958	4138	81	1417	...	...	20594
Taber	...	...	1270	...	...	418	...	1688
Castor	...	14335	1982	2357	54641	...	...	73315
Sheerness	...	1345	151	2309	29277	...	...	33082
Total	499	30745	7541	4747	85954	768	607	130861
FOR CONSUMPTION BY RAILWAY COMPANIES								
Cascade	604	...	...	...	721	...	...	1325
Drumheller	...	13	913	884	19	...	...	1829
Castor	...	...	4942	...	464	...	33	5439
Sheerness	...	...	1172	...	1033	...	...	2205
Total	604	13	7027	884	2237	...	33	10798
FOR CONSUMPTION IN QUEBEC								
Drumheller	...	...	85	...	...	...	...	85
Total	...	...	85	...	...	...	...	85

AMOUNT OF COAL DISPOSED OF DURING THE YEAR BY AREA, ACCORDING TO SIZE GRADING

AREA	SIZE GRAD- ING	RUN OF MINE	LUMP OR COBBLE	EGG	NUT OR STOVE	PRE- PARED STOKER	NUT SLACK	SLACK	TOTAL BY AREA.
FOR CONSUMPTION IN ONTARIO									
Cascade	...	634	...	50	15864	2485	...	...	19033
Crowsnest	7078	...	...	...	7078
Lethbridge	...	81	...	...	...	...	...	...	81
Drumheller	...	2896	1255	...	108	...	...	...	4259
Edmonton	...	522	...	135	...	...	...	...	657
Pembina	418	...	...	418
Taber	...	44	...	...	...	...	...	...	44
Castor	...	66	14	...	...	...	...	...	80
Sheerness	...	18	65	...	...	...	...	...	83
Total	...	4261	1334	185	23050	2903	...	...	31733
FOR CONSUMPTION IN UNITED STATES									
Cascade	7913	...	...	...	101	1185	...	...	9199
Crowsnest	4617	307	...	...	4924
Total	7913	...	...	...	4718	1492	...	...	14123
FOR CONSUMPTION IN JAPAN									
Cascade	4809	...	151153	...	155962
Crowsnest	458839	...	458839
Total	4809	458839	151153	...	614801

DISPOSITION OF ALBERTA COAL

THE MINES DIVISION

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT
For the Years 1946 to 1965 Inclusive

Year	Gross tons of coal mined	Total No. of Eight-hour Man-shifts	Average No. of tons of coal mined Per Eight-hour shift
1946.....	8,824,455	2,105,511	4.191
1947.....	8,074,596	1,998,002	4.041
1948.....	8,111,013	1,894,837	4.280
1949.....	8,616,983	1,910,922	4.510
1950.....	8,118,206	1,735,316	4.678
1951.....	7,661,276	1,683,061	4.552
1952.....	7,194,472	1,522,264	4.726
1953.....	5,917,423	1,141,531	5.184
1954.....	4,859,136	943,558	5.150
1955.....	4,456,578	783,239	5.690
1956.....	4,329,639	750,318	5.770
1957.....	3,155,354	535,346	5.894
1958.....	2,519,939	386,636	6.517
1959.....	2,549,517	377,870	6.747
1960.....	2,404,093	366,970	6.551
1961.....	2,027,826	285,142	7.112
1962.....	2,087,310	277,198	7.530
1963.....	2,289,943	254,671	8.992
1964.....	2,971,133	285,039	10.423
1965.....	3,413,928	288,871	11.820

AMOUNT OF MINE TIMBER USED DURING THE YEAR

BITUMINOUS COAL FIELD

Area	Timber lineal feet	Lumber B.M. feet	Lagging lineal feet	Ties lineal feet	Sprags lineal feet
Group 1:					
Cascade.....	431,331	...	710,202	16,282	...
Group 2:					
Crowsnest.....	896,594	635,756	90,906	56,500	...
Group 3:					
Lethbridge.....	3,500	...	...	1,328	...
Total.....	1,331,425	635,756	801,108	74,110	...

SUB-BITUMINOUS COAL FIELD

Group 4:					
Carbon.....	13,000	1,000	...	2,000	...
Champion.....	6,480	...	6,220	782	...
Drumheller.....	318,092	...	...	7,710	...
Edmonton.....	171,413	15,000	4,490	8,050	...
Gleichen.....	700	...	...	20	...
Group 5:					
Castor.....	...	8,600	...	...	...
Redcliff.....	15,012	...	...	...	...
Total.....	524,697	24,600	10,710	18,562	...

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL FIELDS DURING THE YEARS 1964 and 1965.

BITUMINOUS COAL FIELD

	1964	1965
Portable Electric Lamps, Edison Cap Type.....	723	768
Wolfe Flame Type.....	79	73
Total.....	802	841

SUB-BITUMINOUS COAL FIELD

Portable Electric Lamps, Edison Cap Type.....	279	266
Wolfe Flame Type.....	32	23
Total.....	311	289

THE MINES DIVISION

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL
BITUMINOUS COAL FIELD

Area	Name of Explosives							Total
	Pellet	Monobel	BL-100	CXL-ite	Airdox	Cardox	Forcite	
Group 1:								
Cascade.....	...	45,550	...	...	...	...	...	45,550
Group 2:								
Crownnest...	...	10,620	150	35,368	...	...	...	46,138
Group 3:								
Coalspur....	
Lethbridge..	...	700	...	...	...	...	20	720
Total.....	...	56,870	150	35,368	...	...	20	92,408

SUB-BITUMINOUS COAL FIELD

Group 4:								
Ardley.....	...	6,280	...	...	...	...	...	6,280
Brooks....	63	...	800	2,000	...	...	...	2,863
Carbon....	400	708	...	...	...	...	...	1,108
Champion...	50	600	...	...	...	...	...	650
Drumheller.	...	40	...	...	20,000	...	...	20,040
Edmonton..	...	13,893	...	...	...	...	...	13,893
Gleichen...	40	...	...	...	...	...	...	40
Pembina....	...	3,200	...	...	...	...	2,000	5,200
Taber.....	...	...	...	...	...	...	865	865
Wetaskiwin.	...	...	...	...	...	...	600	600
Group 5:								
Camrose....	...	...	...	...	...	...	500	500
Castor....	8,000	3,202	...	...	...	...	...	11,202
Redcliff...	...	20	...	...	...	...	...	20
Tofield....	...	...	...	...	...	...	3,050	3,050
Westlock...	...	150	...	...	...	...	...	150
Total.....	8,553	28,093	800	2,000	20,000	...	7,015	66,461

ESTIMATED NUMBER OF SHOTS FIRED FOR BLASTING COAL
BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade.....	62,585	...	...	62,585
Group 2:				
Crowsnest.....	20,667	...	...	20,667
Group 3:				
Lethbridge.....	1,295	...	...	1,295
Total.....	84,547	...	...	84,547

SUB-BITUMINOUS COAL FIELD

Group 4:				
Ardley.....	5,336	...	...	5,336
Brooks.....	700	2,421	...	3,121
Carbon.....	730	700	...	1,430
Champion.....	300	50	...	350
Drumheller.....	120	...	...	20,120
Edmonton.....	15,246	...	20,000	15,246
Gleichen.....	...	40	...	40
Pembina.....	3,979	...	...	3,979
Taber.....	1,998	...	...	1,998
Wetaskiwin.....	600	...	...	600
Group 5:				
Camrose.....	208	...	...	208
Castor.....	14,481	...	...	14,481
Redclif.....	14	...	...	14
Tofield.....	880	...	...	880
Westlock.....	369	...	...	369
Total.....	44,961	3,211	20,000	68,172

NUMBER OF MISSED FIRE SHOTS RECORDED IN BLASTING COAL

Cascade.....	1	...	...	1
Total.....	1	...	...	1

NUMBER OF TONS OF COAL PRODUCED PER POUND OF
EXPLOSIVES USED

BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of pounds of explosives used	Tons of coal mined per pound of explosives used
Group 1:			
Cascade.....	243,084	45,550	5.34
Group 2:			
Crowsnest.....	609,408	46,138	13.21
Group 3:			
Coalspur.....	194	...	...
Lethbridge.....	6,490	720	9.01 ,
Total.....	859,176	92,408	9.29

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley.....	32,034	6,280	5.10
Brooks.....	6,783	2,863	2.37
Carbon.....	11,731	1,108	10.59
Champion.....	3,028	650	4.66
Drumheller.....	285,175	20,040	14.23
Edmonton.....	92,277	13,893	6.64
Gleichen.....	223	40	5.57
Pembina.....	968,488	5,200	186.25
Taber.....	104,398	865	120.69
Wetaskiwin.....	1,750	600	2.92
Group 5:			
Camrose.....	26,400	500	52.80
Castor.....	768,181	11,202	68.57
Redcliff.....	2,016	20	100.80
Sheerness.....	210,746	...	...
Tofield.....	17,370	3,050	5.69
Westlock.....	24,152	150	161.01
Total.....	2,554,752	66,461	38.44

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING ROCK
IN COAL MINES

BITUMINOUS COAL FIELD

Area	Pellet	Monobel	BL-100	CXL-ite	Airdox	Cardox	Forcite	Total
Group 1: Cascade.....	3,250	...	...	...	3,250
Total.....	3,250	...	...	...	3,250

SUB-BITUMINOUS COAL FIELD

Group 4: Brooks.....	...	2,100	...	...	...	...	...	2,100
Carbon.....	...	100	...	...	...	...	...	100
Drumheller.....	...	15	...	...	...	...	...	15
Gleichen.....	40	...	...	...	...	...	...	40
Pembina.....	...	...	...	...	...	...	25	25
Taber.....	...	...	...	...	...	...	1,345	1,345
Total.....	40	2,215	...	...	...	...	1,370	3,625

THE MINES DIVISION

ESTIMATED NUMBER OF SHOTS FIRED FOR BLASTING ROCK
IN COAL MINES

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Total
Cascade.....	4,465	...	4,465
Total.....	4,465	...	4,465

SUB-BITUMINOUS COAL FIELD

Brooks.....	35	...	35
Carbon.....	150	...	150
Drumheller....	35	...	35
Gleichen.....	...	40	40
Pembina.....	50	...	50
Taber.....	1,900	...	1,900
 Total.....	 2,170	 40	 2,210

ELECTRICITY

Area	Number of Mines using Electricity	Horsepower of Electrical Equipment in Use		Total Horsepower	Purchased Power
		Above Ground	Below Ground		
Ardley.....	2	65	...	65	16,000
Brooks.....	1	35	...	35	30,000
Camrose.....	2	136	...	136	54,800
Carbon.....	3	42	135	177	20,335
Cascade.....	1	5,517	729	6,246	10,153,600
Castor.....	3	3,806	...	3,806	5,142,229
Champion.....	1	15	...	15	...
Crowsnest.....	2	3,178	150	3,328	1,517,760
Drumheller.....	4	2,249	1,531	3,780	1,379,926
Edmonton.....	4	461	1,000	1,461	461,080
Gleichen.....	1	3	34	37	...
Lethbridge.....	0	155	...	155	130,650
Pembina.....	2	6,338	...	6,338	...
Redcliff.....	1	95	91	186	23,480
Sheerness.....	1	1,565	...	1,565	922,500
Taber.....	1	680	...	680	97,840
Tofield.....	1	96	...	96	41,330
Westlock.....	2	40	...	40	10,000
Westaskiwin.....	1	10	...	10	...
Total.....	33	24,486	3,670	28,156	20,001,530

COAL-CUTTING MACHINERY

Area	No. of Machines Operated by :			Tons of Coal Mined by :	
	Electricity	Compressed Air		Electricity	Compressed Air
		Picks	Machines		
Carbon.....	1	...	...	1,336	...
Cascade.....	2	30	...	51,086	95,999
Champion.....	1	...	...	2,928	...
Coalspur.....	...	3	...	...	194
Crowsnest.....	...	2	4,812	...	4,812
Drumheller.....	6	...	...	230,164	...
Edmonton.....	20	...	...	76,837	...
Gleichen.....	1	...	...	223	...
Lethbridge.....	4	...	...	6,292	...
Redcliff.....	2	...	...	2,016	...
Total.....	37	35	4,812	370,882	101,005

THE MINES DIVISION

Accidents during 1965, classified according to the Mines in which they occurred

Name of Operator	Area	Above Ground		Below Ground		Total Above and Below Ground
		Slight	serious	Slight	serious	
Bituminous						
The Gammon Mines Limited (2), Coleman Collieries Ltd. (174), Coleman Collieries Ltd. (1695),	Cascade..... Crownest..... Crownest.....	.. .. ..	.. 1 1	.. 1 1	1 3 ..	8 10 1
Sub-Bituminous						
Amalgamated Coals Ltd. (1573), Battle River Coal Co. Ltd. (1046), Alberta Coal Ltd. (1757),	Drumheller Gaston Pembina	.. 1 ..	.. 1 ..	.. 1 ..	.. 1 ..	1 1 1
		1	2	1	4	5
Total.....						12
						18
						22

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1965

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January.....	..	1	..	1	..	..	1	1	2
February.....	1	1	2
March.....	1	1	1
April.....	1	2	3	3
May.....	1
June.....	1	1	..	..	2	2	3
July.....	1	1	1
August.....	3	3	3
September.....	1	..	..	1	1
October.....	1	..	..	1	1	..	..	..	2
November.....	..	1	..	..	1	..	1	2	3
December.....
Total.....	1	2	1	4	5	1	12	18	22

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND
DURING THE YEAR 1965

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Fall of Coal at Face.....	3	..	2	5	5
Fall of Rock at Face.....	1	..	1	2	2
Falling Rock.....	1	1	1
Haulage.....	..	1	..	1	..	1	2	3	3
Locomotive Haulage.....
Machinery.....	..	1	..	1	..	..	2	2	3
Miscellaneous.....	1	..	1	2	..	1	1	2	4
Packing Timber.....	1	1	1
Slipped and Fell.....	2	2	2
Total.....	1	2	1	4	5	1	12	18	22

THE MINES DIVISION

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND FOR THE YEAR 1965, CLASSIFIED ACCORDING TO THE AREA IN WHICH THEY OCCURRED

BITUMINOUS

Area	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade.....	1	..	7	8	8
Crowsnest.....	..	1	1	2	3	1	5	9	11
Total.....	..	1	1	2	4	1	12	17	19

SUB-BITUMINOUS

Drumheller.....	..	..	..	..	1	..	..	1	1
Pembina.....	1	..	..	1	..	..	..	..	1
Castor.....	..	1	..	1	..	..	..	..	1
Total.....	1	1	..	2	1	..	..	1	3

FATAL ACCIDENTS IN MINES

Timothy T. Span, Timber Packer, 27, on February 17th, at the Vicary Creek Mine, operated by Coleman Collieries Ltd., Coleman. A sudden rush of water buried him under a pile of muck and debris. His body was recovered thirty days later.

John Crawford, Fireboss, 57, on May 28th, at the mine operated by The Canmore Mines, Limited, Canmore. While employed in No. 3 Mine, rock fell on top of him, causing instant death.

Kenneth L. Root, Timber Packer, 18, on September 22nd, at the Vicary Creek Mine, operated by Coleman Collieries Ltd., Coleman. When hoisting timber, a post was knocked out and he was buried by coal which fell off the high side rib, causing instant death.

John Churla, Miner, 51, on October 28th, at the Vicary Creek Mine, operated by Coleman Collieries Ltd., Coleman. While digging coal, top coal fell, burying him and causing instant death.

Walter N. Burak, Coal Handling Plant Operator, 31, on October 30th, at the mine operated by Alberta Coal Ltd., Wabamun. When he was discovered, he was caught between a conveyor belt and an idler roller of the stacker belt at the Coal Handling Plant, receiving fatal injuries.

George Petrovics, Faceman, 61, on November 26th, at the mine operated by Amalgamated Coals Ltd., East Coulee. While at face of #17 Room, Main Entry, a fall of roof occurred, striking him and causing instant death.

THE MINES DIVISION

NUMBER OF TONS PRODUCED PER ACCIDENT

BITUMINOUS COAL FIELD

Area	Output	No. of Tons Produced Per Accident			
		Fatal	Serious	Slight	Total
Group 1:					
Cascade.....	243,084	243,084	...	34,726	30,385
Group 2:					
Crowsnest.....	609,408	203,136	304,734	101,568	55,401
Group 3:					
Coalspur.....	194	...	...	...	...
Lethbridge.....	6,490	...	...	...	...
Total.....	859,176	214,794	429,588	66,090	45,220

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley.....	32,034	...	...	...	...
Brooks.....	6,783	...	...	...	...
Carbon.....	11,731	...	...	...	...
Champion.....	3,028	...	...	...	...
Drumheller.....	285,175	285,175	...	...	285,175
Edmonton.....	92,277	...	...	...	...
Gleichen.....	223	...	...	...	...
Pembina.....	968,488	968,488	...	...	968,488
Taber.....	104,398	...	...	...	...
Wetaskiwin.....	1,750	...	...	...	...
Group 5:					
Camrose.....	26,400	...	...	...	...
Castor.....	768,181	...	768,181	...	768,181
Redcliff.....	2,016	...	...	...	...
Sheerness.....	210,746	...	...	...	...
Tofield.....	17,370	...	...	...	...
Westlock.....	24,152	...	...	...	...
Total.....	2,554,752	1,277,376	2,554,752	...	851,584

SUMMARY

Bituminous.....	859,176	214,794	429,588	66,090	45,220
Sub-Bituminous.....	2,554,752	1,277,376	2,554,752	...	851,584
Total.....	3,413,928	568,988	1,137,976	262,610	155,178

CLASSIFICATION OF ACCIDENTS ACCORDING TO OUTPUT OF MINES WHICH PRODUCED DURING THE YEAR 1965

Accidents	Under 1,000 tons	1,000 to 5,000 tons	5,000 to 10,000 tons	10,000 to 50,000 tons	50,000 to 100,000 tons	100,000 to 150,000 tons	150,000 to 200,000 tons	200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal.....	2	4
Serious.....	1	2
Slight.....	7	13
Total.....	10	22

TONS OF COAL PRODUCED PER ACCIDENT

Fatal.....	...	...	...	...	...	...	...	475,304	4,61,696	569,988
Serious.....	...	...	...	...	...	...	...	950,608	923,391	1,137,976
Slight.....	...	...	...	...	...	...	...	135,801	307,797	262,610
Total.....	...	...	...	...	...	...	...	95,061	153,898	155,178

THE MINES DIVISION

Summary Table showing Accidents occurring in the Mines from 1946 to 1965 inclusive, reportable under The Mines Regulation Act.

Year	Output	Accidents			Tons of Coal Mined Per Accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1946.....	8,824,455	12	76	128	735,371	116,111	68,941
1947.....	8,074,596	15	121	117	538,306	66,732	69,014
1948.....	8,111,013	13	91	93	623,924	89,132	87,215
1949.....	8,616,983	13	89	108	662,076	96,708	79,694
1950.....	8,118,206	20	86	97	405,910	94,398	83,693
1951.....	7,661,276	9	85	53	851,253	90,133	144,552
1952.....	7,194,472	7	79	79	1,027,782	91,069	91,069
1953.....	5,917,423	10	59	60	591,742	100,295	98,623
1954.....	4,859,136	8	51	41	607,392	95,277	118,516
1955.....	4,456,578	3	54	52	1,485,526	82,529	85,703
1956.....	4,329,639	6	34	33	721,607	127,342	131,201
1957.....	3,155,354	2	25	15	1,577,677	126,214	210,357
1958.....	2,519,999	6	19	8	419,990	132,628	314,992
1959.....	2,549,517	1	18	10	2,549,517	141,639	254,952
1960.....	2,404,093	2	16	21	1,202,047	150,256	114,481
1961.....	2,027,826	1	9	11	2,027,826	225,314	184,348
1962.....	2,087,310	4	5	23	521,827	417,462	90,753
1963.....	2,289,943	1	3	11	2,289,943	763,314	208,177
1964.....	2,971,133	1	3	20	2,971,133	990,378	148,557
1965.....	3,413,928	6	3	13	568,988	1,137,976	262,610

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS
1963, 1964 and 1965.

Clothing	1963	1964	1965
Hard Hats.....	901	1,010	977
Safety Shoes, pairs....	600	642	660
Goggles, pairs.....	195	180	177
Knee Pads, pairs.....	19	30	25

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1946 - 1965

Year	Tonnage	Total No. of men employed	Fatal Accidents		Serious Accidents		Slight Accidents		Total	
			No. per 1,000 tons	No. per 1,000 men	No. per 1,000 tons	No. per 1,000 men	No. per 1,000 tons	No. per 1,000 men	No. per 1,000 tons	No. per 1,000 men
1946.....	8,826,455	8,583	12	1.36	1.39	76	8.61	8.85	128	14.50
1947.....	8,071,596	8,772	15	1.86	1.71	121	14.98	13.79	117	14.49
1948.....	8,111,013	8,865	13	1.60	1.47	91	11.22	10.27	93	11.47
1949.....	8,616,983	8,682	13	1.51	1.50	89	10.33	10.75	108	12.53
1950.....	8,118,206	7,999	20	2.46	2.50	86	10.59	10.75	97	11.95
1951.....	7,661,276	7,339	9	1.17	1.23	85	11.09	11.58	53	6.92
1952.....	7,191,472	6,936	7	0.97	1.01	79	10.98	11.39	79	10.98
1953.....	5,917,423	5,760	10	1.69	1.74	59	9.97	10.24	60	10.14
1954.....	4,859,136	4,719	8	1.65	1.70	51	10.49	10.81	41	8.43
1955.....	4,456,578	3,801	3	0.67	0.79	54	12.12	14.21	52	11.67
1956.....	4,329,539	3,443	6	1.39	1.74	34	7.85	9.88	33	7.62
1957.....	3,155,554	2,795	2	0.63	0.72	25	7.92	8.74	15	7.58
1958.....	2,519,939	2,021	6	2.38	2.97	19	7.54	9.40	8	3.17
1959.....	2,549,517	1,720	1	0.39	0.58	18	7.07	10.46	10	3.92
1960.....	2,404,093	1,729	2	0.83	1.16	16	6.66	9.25	21	8.74
1961.....	2,027,826	1,323	1	0.49	0.76	9	4.44	6.80	11	5.42
1962.....	2,087,310	1,281	4	1.92	3.12	5	2.39	3.90	23	11.02
1963.....	2,289,943	1,151	1	0.44	0.87	3	1.31	2.61	11	4.80
1964.....	2,971,133	1,188	1	0.34	0.84	3	1.01	2.52	20	6.73
1965.....	3,443,928	1,181	6	1.76	5.08	3	0.88	2.54	13	3.81

per
1,000
men
employedper
1,000
tonsper
1,000
men
employedper
1,000
tons

THE MINES DIVISION

BOARD OF EXAMINERS

The Board of Examiners during the year 1965 consisted of the following:

As representing:

The Mine Inspectorate: J.A. Dutton, Director of Mines.

Managers: H. Crawford and P.M. Ramsay.

Working Miners: H.R. Sherwood and G.B. Hunter.

Secretary: M.B. Rasmussen.

Examinations for the following classes of certificates were held in Edmonton and Calgary on May 4th, 5th and 6th, 1965.

One candidate presented himself for examination for First Class (Underground) Certificate, and he was unsuccessful.

One candidate presented himself for examination for Second Class (Underground) Certificate, and he was unsuccessful.

One candidate presented himself for examination for Third Class (Underground) Certificate, and he was unsuccessful.

One candidate presented himself for examination for First Class Mine Electrician's Certificate, and he was unsuccessful.

Four candidates presented themselves for examination for Managers' (Strip Mine) Certificates, and they were successful.

Ten candidates presented themselves for examination for Foremen's (Strip Mine) Certificates, and nine were successful.

One candidate presented himself for examination for Blaster's (Strip Mine) Certificate, and he was successful.

The following list gives the names of successful candidates.

STRIP MINES

MANAGER

Name	Address	Cert. No.	Date of Certificate
Vivurka, Albert J.	Wabamun	13	16- 6-65
Kingdon, Donald	Wabamun	14	18- 6-65
Bish, Grant T.	Forestburg	15	22- 6-65
Shirley, Philip H.	Edmonton	16	5- 7-65

FOREMAN

Sissons, Eric	Alix	37	11- 6-65
Sissons, John E.C.	Alix	38	11- 6-65
Evans, Ronald E.	Forestburg	39	14- 6-65
Bianchini, Meno J.	Hillcrest	40	14- 6-65
Cloutier, Clement	Picardville	41	15- 6-65
Cross, Richard J.	Wabamun	42	16- 6-65
Nordby, James P.	Ryley	43	21- 6-65
Michel, Peter P.	Wabamun		
** Petryshen, Albert	Dodds		

BLASTER

** Fossen, Joy O. Forestburg

** Certificate not issued as at December 31st, 1965.

EXAMINATIONS UNDER THE QUARRIES REGULATION ACT

Written examinations for certificates under the above Act were held in Edmonton and Calgary on May 4th, 1965.

Two candidates presented themselves for examination for Managers' Certificates, and both were successful.

Nine candidates presented themselves for examination for Foremen's Certificates, and five were successful.

The following list gives the names of successful candidates.

QUARRIES

MANAGER

Name	Address	Cert. No.	Date of Certificate
Crawford, Andrew B.	Edmonton	22	19- 5-65
Gosney, Fred W.	Edmonton	23	19- 5-65

FOREMAN

Boyer, Thomas L.	Onoway	42	19- 5-65
Brown, Richard G.F.	Cadomin	43	19- 5-65
Coast, Ronald L.	Mercoal	44	19- 5-65
Gosney, John A.	Hinton	45	19- 5-65
Pfannmuller, George A.	Cadomin	46	19- 5-65

THE MINES DIVISION

REPORT OF ANALYSIS OF COMMERCIAL COAL SAMPLES

Samples taken during 1965 and published in accordance with Regulation 17 (5) of The Coal Sales Regulations established pursuant to The Coal Sales Act.

Mine	Size	Moisture	Ash	Volatile Matter	Carbon	Sulphur	BTU/lb
Canmore Mines Ltd.	Stove	2.8	6.6	12.0	78.6	0.9	14,050
	Stoker	5.0	8.0	11.5	75.5	0.8	13,550
	Buckwheat	6.5	8.6	12.0	72.9	0.7	13,100
	Slack	3.0	9.5	12.2	75.3	0.8	13,450
Amalgamated Coals Limited	Lump	18.4	5.8	32.7	43.1	0.4	9,640
	Egg	18.9	6.6	31.2	43.3	0.6	9,600
	Nut	18.4	8.5	32.0	41.1	0.5	9,330
	Stoker	18.3	9.4	31.4	40.9	0.6	9,140
	Slack	18.3	9.4	30.4	41.9	0.5	9,200

LIST OF MINES PRODUCING DURING

The Year 1965

Character of Coal:- Bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
2	The Cammore Mines Limited...	Cammore.....	Parts 24-10-5	Cammore Smokeless Coal, Cammore Briquettes.....	1891
846	McLeod River Hard Coal Co. Coalspur Area	Mercoal.....	3-19-48-21-5	McLeod River Hard Coal Co. (1941) Ltd.	1963
1695	Coleman Collieries Ltd.....	Coleman.....	12- 7- 6-5	Coleman Coal.....	1949
1731	Castle Coal Co.....	Blairmore.....	8- 9- 6- 2-5	Standard.....	1960
1747	Coleman Collieries Ltd.....	Coleman.....	16-19- 9- 4-5	Vicary Creek Coal.....	1957
1263	Lethbridge Collieries Ltd...	Shaughnessy.....	11-30-10-21-4	Cadillac Coal, Galt Coal, Imperial Coal.....	1927
1762	C.S.D. Coal Company Ltd....	Shaughnessy.....	2 & S $\frac{1}{2}$ 7-21-10-21-4	Diamond Coal.....	1965

THE MINES DIVISION

LIST OF MINES PRODUCING DURING

The Year 1965

Character of Coal:- Sub-bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
809 1734	Ardley Area Sisson's Mine..... John Lynass.....	Alix..... Deburne.....	S.W. $\frac{1}{4}$ of 7-20-38-23-4	Sisson's Coal..... Lynass Coal.....	1919 1953
1404 1672	Brooks Area Kleenburn Collieries Ltd..... Coral Coals Ltd.....	Bow City..... Rolling Hills.....	Pts. of 148- 3-14-13-4	Birnwell Coal..... Coral Coal, Rolling Hills Coal.....	1932 1948
724 1603	Camrose Area Burnstad Coal Ltd..... Camrose Collieries Ltd.....	Round Hall..... Camrose.....	N. $\frac{1}{2}$ of 14&15-17-46-19-4	Burnstad's Coal..... Camcoal, Camrose Coal.....	1917 1943
53 194 921 1761	Carbon Area Alfred Fox..... New Ghost Pine Coal Co. Ltd..... Enrich Reisig..... Halbert Coal Mine.....	Carbon..... Three Hills..... Trochu..... Trochu.....	15-11-29-23-4 14&9-31-22-4 15&10-30-33-23-4 13-32-33-22-4	Carbon Sunrise Coal..... New Ghost Pine Coal..... Meadow Bank Coal..... Comfort	1898 1909 1921 1964

LIST OF MINES PRODUCING DURING

The Year 1965

Character of Coal:- Sub-bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
	Castor Area				
1046	Battle River Coal Co. Ltd.***	Halkirk.....	15&16-20-40-15-4	Cordel Coal, Vesta Coal, Sterling, Victory Coal, Blue Flame Coal,....	1922
1578	Forestburg Collieries Ltd.***	N.W. $\frac{1}{4}$ of Forestburg.....	6-41-15-4	Diplomat Coal, Ambassador.....	1943
1614	Stettler Coal Co. Ltd.*****	Halkirk.....	11-25-40-16-4	All-Fire Coal.....	1943
	Champion Area				
1137	Smith Mine.....	Champion.....	2&3-4-16-23-4	Smith Coal.....	1934
1509	Champion Coal Co. Ltd.*****	Champion.....	4-3-15-23-4	Champion Coal.....	1937
	Drumheller Area				
1573	Amalgamated Coals Ltd.*****	East Coulee.....	1-7-27-18-4	Meteor Coal, New Star Coal, Western Crown Coal, Western Monarch Coal, New Mercury Coal, New Murray Coal, New Midland Coal, New Rosedale Coal, Hy- Grade, Purity Hard.....	1940
				Subray Coal,.....	1947
				Utility Coal,.....	1960
1666	Subway Coal Company.....	Rosedale.....	15-16-28-19-4	Premier Coal,.....	1964
1756	Fox Coulee Coals Ltd.*****	Drumheller.....	2-17-29-20-4		
1759	Alan R. Menzies.....	East Coulee.....	W. $\frac{1}{2}$ 11&S. $\frac{1}{2}$ 12	18-28-19-4	

THE MINES DIVISION

LIST OF MINES PRODUCING DURING

The Year 1965

Character of Coal:- Sub-Bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
Edmonton Area					
720	Slide Hill Coal Co., Ltd....	Edmonton.....	N.W. $\frac{1}{4}$ of N.W. $\frac{1}{4}$ of N.W. $\frac{1}{4}$ of W. $\frac{1}{2}$ of	Slide Hill Coal..... Black Gem Coal..... Egg Lake Coal..... Star-Key Coal..... Whitehead Creek Coal Co., Ltd.	1960 1927 1941 1945 1952
1266	Black Gem Coal Company Ltd....	Naamoo.....	5-51-25-4 36-54-25-4 16,108-1,35-54-25-4		
1582	Egg Lake Coal Co., Ltd.....	Morinville.....	36-56-26-4		
1626	Star-Key Mines Limited.....	St. Albert.....			
1727	Whitehead Creek Coal Co., Ltd.	Edmonton.....	S.W. $\frac{1}{4}$ of		
Gleichen Area					
1431	Consumer's Mine.....	Rosebud.....		Consumer's Coal.....	1933
Pembina Area					
1670	Warburg Coal Co., Ltd.....	Warburg.....			
1739	Charles Ostertag.....	Evansburg.....	12-13-49 -3-5	Pinter Coal.....	1948
1757	Alberta Coal Limited.....	Webman.....	10-54 -7-5	Pembina Peerless Coal.....	1954
			1A&15-53 -4-5	Whitemud.....	1962
Redcliff Area					
772	Ajax Coal Company.....	Medicine Hat.....		Ajax Coal.....	1918
Sheerness Area					
443	Great West Coal Company, Ltd.	Sheerness.....	S.E. $\frac{1}{4}$ of	Roselyn, Berry Creek, Volcano.....	1915

LIST OF MINES PRODUCING DURING

The Year 1965

Character of Coal:- Sub-bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L. S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
1604	Alberta Coal Sales Limited. Taber Area	Taber.....	16-12-10-17-4	Majestic Coal, Southalta Coal...	1943
215 1107 1624	Jet Construction Ltd..... Black Nugget Coal Ltd..... Ryalta Coal.....	Ryley..... Dodd's..... Ryley.....	5, ½ of Pcs. of 12-9-49-17-4	Red Flame Coal..... Black Nugget..... Ryalta Coal.....	1909 1923 1945
1523 1562	Westlock Area	Picardville..... Thornhill.....	16-35-58-27-4 1-11-60-21-4	Picardville Coal..... North Point Coal.....	1960 1939
1743	Wetaskiwin Area Blue Bird Coal Company.....	Ledue.....	12-81-20-48-25-4	Blue Bird Coal.....	1956

THE MINES DIVISION

LIST OF QUARRIES PRODUCING DURING
The Year 1965

QUARRY NO.	OPERATOR	QUARRY OFFICE ADDRESS	PRODUCT	QUARRY LOCATION L.S. S. T. R. M.	DATE OF OPENING
Cascade Area					
Q 2	Canada Cement Company Limited.....	Exshaw.....	Limestone.....	Pts. of	27&28-24-9-5
Q 27	Canada Cement Company Limited.....	Exshaw.....	Shale.....	Pts. of	7-25-8-5
Q 28	Rundle Rock Building Stone Co. Ltd.	Calgary.....	Bldg. Stone.....	Pts. Secs.	17, 18&19-25-10-5
Q 47	Rockers, Lime Division.....	Exshaw.....	Limestone.....	Pts. Sec.	24-24-10-5
Q 50	Ribbon Creek.....	Sebe.....	Bldg. Stone.....	Pts. Secs.	15, 16& 2-23-9-5
Q 57	Alberta Rundle Rock Ltd.	Calgary.....	Bldg. Stone.....	Pts. of	11&14. 7-24-9-5
Q 58	Thunderstone Quarries Ltd.	Camrose.....	Bldg. Stone.....	M.E. 1/2	12- 7-24-9-5
Q 62	Better Rock Co. Ltd.	Camrose.....	Bldg. Stone.....	W. 1/2	11&12-34-24-10-5
Castor Area					
Q 37	Magocbar Mining Company, Limited.....	Rosalind.....	Bentonite.....		1958
Crowsnest Area					
Q 8	Summit Lime Works Ltd.	Crowsnest, B.C.	Limestone.....	Pts. of	7- 8- 5-5
Edmonton Area					
Q 5	Northwest Ceramics Ltd.	Edmonton.....	Shale.....	N.E. 1/4 of	21-53-25-4
Q 22	Inland Cement Company Limited.....	Edmonton.....	Shale.....	Pts. of	15&22-53-25-4
Mountain Park Area					
Q 21	Inland Cement Company Limited.....	Cadomin.....	Limestone.....		13-30-46-23-5
					1955

LIST OF QUARRIES PRODUCING DURING
The Year 1965

QUARRY NO.	OPERATOR	QUARRY OFFICE ADDRESS	PRODUCT	QUARRY LOCATION L.S.S. T. R. M.	DATE OF OPENING
Q 64	Magrath Area Alberta Oyster Shell Co.....	Cardston.....	Limestone.....	5- 3- 4-27-4	1964
Q 34 Q 45	Pakowki Area Medicine Hat Brick & Tile Company Limited Medicine Hat Brick & Tile Company, Limited	Medicine Hat..... Medicine Hat.....	Shale..... Shale.....	5,6,11&-20- 8- 3-4 10&15- 9- 8- 4-4	1957 1959
Q 1,3	Pembina Area Baroid of Canada, Ltd.....	Oneway.....	Bentonite.....	Pts. Secs. 5&8, Sec. 7-56- 2-5	1959
Q 7 Q 14	Redcliff Area Medicine Hat Brick & Tile Company Limited Medicine Hat Brick & Tile Company Limited	Redcliff..... Medicine Hat.....	Shale..... Shale.....	S.W. 1/4 of 162 9-13- 6-4 31-12- 4-4	1913 1951
Q 24 Q 60	No Area Consolidated Concrete Industries Ltd. Consolidated Concrete Limited.....	Calgary..... Calgary.....	Shale..... Shale.....	Pts. 3,4&5-32-21-29-4 7&8-36-21- 1-5	1956 1962
Q 36	No Area Northwest Ceramics Ltd.....	Edmonton.....	Shale.....	N.E. 1/4 of 9	1958
Q 41 Q 65	Syn crude Canada Ltd..... Great Canadian Oil Sands Limited.....	Edmonton..... Edmonton.....	Oil-Sands..... Oil-Sands.....	5&6-16-46-22-4 15-14-32-10-4 23-32-10-4	1959 1964

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